Notice of Allowability	Application No.	Applicant(s)	
	10/719,848	CHOPRA, KEWAL K.	
	Examiner	Art Unit	
	David M. Fenstermacher	3682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *Application filed 11/24/03*.

2. ☒ The allowed claim(s) is/are *10-17*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr Acosta (32,187) on 9/27/06.

The application has been amended as follows:

In the Claims:

Claims 2-9 have been cancelled.

The following claims (10 to 17) have been added:

Claim 10 An engine oil level monitoring and replenishment system for use with an internal combustion engine having an oil sump with a sump inlet for adding replenishment oil including:

a float located within the sump the float having an activating arm attached thereto the activating arm being attached to the first end of a pivoting arm, the float being in contact with the oil in the sump and responsive to the oil level to continuously measure the oil level;

a reservoir for holding a quantity of oil for use in replenishing the sump, the reservoir having an outlet;

a valve means associated with the reservoir, the valve means having its intake fluidly connected to the reservoir outlet and its output connected to the sump inlet, the valve means being connected to a second end of the pivoting arm so that as the pivoting arm is moved by the action of the float, the valve means opens to allow the oil from the reservoir to enter the valve means and exit into the sump;

a reservoir float located within the reservoir, the reservoir float having a push rod attached thereto the push rod being in contact with a first end of a vertically oriented S-shaped member so that movement of the reservoir float will move the S-shaped member a similar distance, the reservoir float being in contact with the oil in the sump and responsive to the oil level to continuously measure the oil level in the reservoir;

a low level oil switch attached to the reservoir the second end of the S-shaped member being located above said switch so that vertical movement of the S-shaped member will activate the switch in response, the switch having an associated warning circuit interactive with the switch and responsive to lowered oil level in the reservoir to generate a signal;

a first warning light electrically connected to the warning circuit and responsive to the signal from said circuit to indicate that the oil level has reached a critical level;

a full level switch located above the low level oil switch the full level switch attached to the reservoir above the low level oil switch with the second end of the S-shaped member being located between the low level oil switch and the full level switch above the low level switch so that vertical movement of the S-shaped member will activate the full level switch in response to the addition of oil to the reservoir, the full

level switch having an associated circuit interactive with the full level switch and responsive to raised oil level in the reservoir to generate a signal; and

a full level indicator light electrically connected to the interactive circuit associated with the full level switch and responsive to the signal from said circuit to indicate that the oil reservoir has reached the desired fill level.

Claim 11 The engine oil level monitoring and replenishment system of Claim 10 in which the activating arm attached to the float within the sump is itself mounted within a sleeve extending between the sump and the oil reservoir.

Claim 12 The engine oil level monitoring and replenishment system of Claim 10 in which the valve means further includes a connecting channel extending between valve means and sump inlet through which reservoir oil exits said valve means and enters through the sump inlet into the sump.

Claim 13 The engine oil level monitoring and replenishment system of Claim 10 in which the valve means includes a valve member, a piston arm having a piston disposed at one end, said piston within said valve member, said piston arm attached to the pivoting arm, whereby movement of the pivot arm in turn moves the piston arm and the piston to open and close said valve means.

Claim 14 The engine oil level monitoring and replenishment system of Claim 10 in which the reservoir further comprises an adjustment member operative on the activation

arm to change its range of motion, whereby the adjustment member will control the intervals at which oil will replenish the sump.

Claim 15 The engine oil level monitoring and replenishment system of Claim 10 in which the adjustment member comprises a threaded stem having a knob at a first end and a second end adapted to bear against said activating arm.

Claim 16 The engine oil level monitoring and replenishment system of Claim 10 in which the warning light connected to the warning circuit of the low level oil switch is located a passenger compartment of a vehicle having said internal combustion engine.

Claim 17 The engine oil level monitoring and replenishment system of Claim 10 in which the full level indicator light connected to the circuit of the full level switch is located near the opening of said reservoir.

In the specification:

Paragraph 2 of the specification has been replaced with the following:

2. The invention described herein may be manufactured, used, sold, imported and/or licensed by or for the Government of the United States of America.

End of amendment

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Fenstermacher whose telephone number is 571-272-7102. The examiner can normally be reached on 10:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on 571-272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

DAVID FENSTERMACHER
PRIMARY EXAMINER 9/28/06